

Title (en)

METHOD FOR COMPENSATING THE ROTATIONAL SHAPELESSNESS DURING DETECTION OF THE REVOLUTIONS PER MINUTE

Title (de)

VERFAHREN ZUR KOMPENSATION DER DREHUNFÖRMIGKEIT BEI DER DREHZAHLERFASSUNG

Title (fr)

PROCEDE DE COMPENSATION DE LA DIFFORMITE ROTATIVE LORS DE LA DETECTION DE LA VITESSE DE ROTATION

Publication

**EP 1272858 B1 20071010 (DE)**

Application

**EP 01915014 A 20010216**

Priority

- DE 0100594 W 20010216
- DE 10017107 A 20000406

Abstract (en)

[origin: WO0177692A2] The invention relates to a method for detecting the revolutions per minute and/or the angle on rotating components of a combustion engine that comprises a transmitting wheel (1). k teeth (11, 12) are received on the circumferential surface (2) of said wheel. Said teeth are scanned by means of one or more signal transmitters (6) which detect the time difference  $t_s(k)$  of two successive teeth (11). The measured segment times  $t_s(k)$  (9) are adjusted by the errors of the transmitting wheel (1) within an adjusting routine (19) by means of a reference model (27) or by means of an order filter (37) having at least one of the main orders of the Fourier transformations (38, 43) that are allocated to the combustion engine, whereby the respective operating point (n,  $p_1$ , mE) of the combustion engine is defined on said model.

IPC 8 full level

**G01P 21/02** (2006.01); **F02D 41/34** (2006.01); **G01P 3/489** (2006.01)

CPC (source: EP)

**F02D 41/009** (2013.01); **F02D 41/0097** (2013.01); **G01P 3/489** (2013.01); **G01P 21/02** (2013.01); **F02D 2041/1432** (2013.01); **F02D 2041/288** (2013.01)

Cited by

DE102015217246B4; CN110794171A; DE102015217246A1; DE102010054532A1; EP2492475A1; US10961939B2; DE102012110028B4

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

**WO 0177692 A2 20011018; WO 0177692 A3 20020606**; AU 4226301 A 20011023; DE 10017107 A1 20011018; DE 50113124 D1 20071122; EP 1272858 A2 20030108; EP 1272858 B1 20071010; ES 2291303 T3 20080301

DOCDB simple family (application)

**DE 0100594 W 20010216**; AU 4226301 A 20010216; DE 10017107 A 20000406; DE 50113124 T 20010216; EP 01915014 A 20010216; ES 01915014 T 20010216